

U.S. Weather bureau.

# MONTHLY WEATHER REVIEW,

OCTOBER, 1872.

WAR DEPARTMENT,

Office of the Chief Signal Officer,

DIVISION OF

TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

## STORMS.

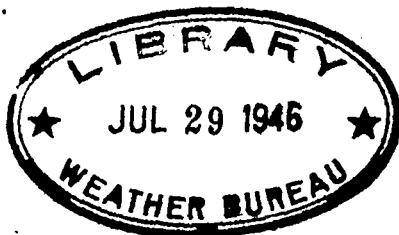
The progress over the country of thirteen storm-centres has, during the month, been traced upon the War Department Weather Maps, Signal Service, United States Army. The most severe of these storms was that which, from the 21st to the 27th, traveled from the Gulf northeastward over the south Atlantic and Middle States, and thence eastward over southern New England into the Atlantic, attended throughout its course by heavy rains and brisk to high winds, increasing at times to gales. These rains were particularly heavy in northeastern Florida and southeastern Virginia, over 6 inches of water falling during the storm at Jacksonville, and nearly  $7\frac{1}{2}$  inches at Norfolk. Of the remainder of these disturbances, nine pursued an irregular eastward course from the Northwest over the Lake region into Canada or New York or New England to Brunswick or Nova Scotia; one moved from Texas eastward into the Gulf, where it disappeared; one nearly northward from off Cape Cod across Maine to New Brunswick, and one from Kansas and Nebraska eastward over the Ohio Valley to Virginia.

## RAINFALL.

The returns from the Signal Service stations show that an excess of rain over the mean for the month has fallen on the Atlantic coast, except in Maine and southeastern Connecticut, and throughout the Middle States and lower lake region, excepting western Lake Erie. This surplus amounts to 4.32 inches at Jacksonville, Fla., 4.89 at Rochester, and 7.07 at Norfolk, but is less at other stations in the sections, varying from 1 to 2 inches. A slight excess has also fallen in the western portions of Tennessee and Minnesota, and eastern parts of Nebraska and Kansas. There has been a deficiency of about an inch in northern New England, interior portions of South Carolina and Georgia, and throughout the Gulf States, excepting Florida, while in central and eastern Tennessee, western Kentucky, the upper Mississippi valley, and over the upper lake region the figures show a general deficiency of about 2 inches. The precipitation has been very slight at the Rocky Mountain stations and on the Pacific coast, apparently less than the mean for October.

## TEMPERATURE.

The mean temperatures for the month show but little variation from the means for October at most of the Signal Service stations. At the Rocky Mountains, on the Pacific and western Gulf coasts, in eastern Iowa and southern Wisconsin, and throughout the Atlantic states, from Florida to Rhode Island, temperatures slightly cooler than usual have been experienced, the variation below the mean for the month being greatest at Milwaukee and on the coast of Georgia and the Carolinas, where it amounts to about  $3^{\circ}$ . In all other sections the temperature has been slightly above the average for October. The month has, however, been much cooler than October, 1871, everywhere in the Mississippi Valley and eastward, this difference of the mean temperatures being greatest in Florida, Georgia, and from the Ohio Valley to the lower lakes and southern portion of the upper lake region, amounting in these sections to from  $3^{\circ}$  to  $6^{\circ}$ .



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Desk copy" Officer in charge  
Indications Division  
Signal Office.